ASTRALPOOL · Sand Filters

Vesubio (Volcano) Sand Filter – Public Pools



The AstralPool Vesubio (Volcano) public pool series is a laminated sand filter made of isophthalic polyester and fibreglass, with a collector-arm system and a 1 m filter bed. Available in Ø 1050–2000 mm, it delivers 17–157 m³/h at filtration rates of 20–50 m³/h/m², works at 2.5 bar and complies with EN 16713-1.

- Collector-arm distribution system and 1 m filter bed
- Suitable for 20, 30, 40 and 50 m³/h/m² filtration rates; 17 – 157 m³/h flow
- Ø 1050 – 2000 mm diameters, 2.5 bar maximum working pressure
- Pressure gauge, air purge and water drain valve included
- Ø 400 mm filter lid and 2½" sand drain plug
- Options: side manhole, sight glass, ozone, seawater and drinking water versions

General Specifications

Filter type	Laminated sand filter, collector arms, side outlets
Body material	Isophthalic polyester + fibreglass
Filter bed height	1 m
Max. working pressure	2.5 bar
Filtration rates	20 / 30 / 40 / 50 m³/h/m²
Diameter range	Ø 1050 – 2000 mm
Flow rate range	17 – 157 m³/h
Connection size	63 – 160 mm
Filter lid	Ø 400 mm
Diffuser distribution	0.3 mm
Drains	Sand 2½" · Water ¼" · Manual air purge ¼"
Included	Pressure gauge, air purge, water drain valve
Not included	Filter media and valve collector (sold separately)
Standard	EN 16713-1

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Order Codes

Order code	Description	Certification
41304	Ø 1050 mm · 20 m³/h/m² · 17 m³/h · 63 mm connection	EN 16713-1
41305	Ø 1050 mm · 30/40 m³/h/m² · 25/34 m³/h · 75 mm connection	EN 16713-1
41306	Ø 1050 mm · 50 m³/h/m² · 43 m³/h · 90 mm connection	EN 16713-1
41307	Ø 1200 mm · 20/30 m³/h/m² · 22/33 m³/h · 75 mm connection	EN 16713-1
41308	Ø 1200 mm · 40/50 m³/h/m² · 45/56 m³/h · 90 mm connection	EN 16713-1
41309	Ø 1400 mm · 20 m³/h/m² · 30 m³/h · 75 mm connection	EN 16713-1
41310	Ø 1400 mm · 30 m³/h/m² · 46 m³/h · 90 mm connection	EN 16713-1
41311	Ø 1400 mm · 40/50 m³/h/m² · 61/77 m³/h · 110 mm connection	EN 16713-1
41312	Ø 1600 mm · 20 m³/h/m² · 40 m³/h · 90 mm connection	EN 16713-1
41313	Ø 1600 mm · 30/40 m³/h/m² · 60/80 m³/h · 110 mm connection	EN 16713-1
41314	Ø 1600 mm · 50 m³/h/m² · 100 m³/h · 125 mm connection	EN 16713-1
41315	Ø 1800 mm · 20 m³/h/m² · 50 m³/h · 90 mm connection	EN 16713-1
41316	Ø 1800 mm · 30 m³/h/m² · 76 m³/h · 110 mm connection	EN 16713-1
41317	Ø 1800 mm · 40 m³/h/m² · 101 m³/h · 125 mm connection	EN 16713-1
41318	Ø 1800 mm · 50 m³/h/m² · 125 m³/h · 140 mm connection	EN 16713-1
41319	Ø 2000 mm · 20 m³/h/m² · 62 m³/h · 110 mm connection	EN 16713-1
41320	Ø 2000 mm · 30 m³/h/m² · 94 m³/h · 125 mm connection	EN 16713-1
41321	Ø 2000 mm · 40 m³/h/m² · 125 m³/h · 140 mm connection	EN 16713-1
41322	Ø 2000 mm · 50 m³/h/m² · 157 m³/h · 160 mm connection	EN 16713-1

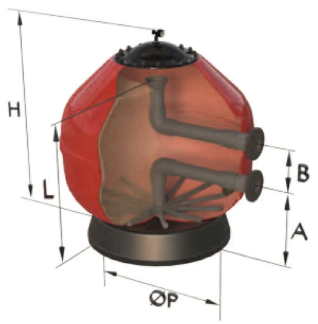
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Technical Values by Model

Parameter	Ø 1050	Ø 1200	Ø 1400	Ø 1600	Ø 1800	Ø 2000
Filtration surface area (m²)	0.87	1.13	1.54	2.01	2.54	3.14
A (H) (mm)	465	675	725	710	755	775
B (M) (mm)	500	500	500	500	570	570
H (mm)	1545	1730	1845	1850	1915	2030
L (mm)	1000	1250	1300	1400	1350	1420
Ø P (mm)	760	850	1085	1230	1370	1560
Net weight (kg)	110	125	152	185	257	360
Operating weight (kg)	1630	2220	3060	3930	5065	6360
Package volume (m³)	2.25	3.37	4.41	5.66	7.40	9.48
Sand 0.4–0.8 mm (kg)	1125	1350	1850	2723	3175	3650
Silex gravel 1–2 mm (kg)	175	275	350	450	550	675
Glass media – fine (kg)	650	775	1075	1575	1850	2125
Glass media – medium (kg)	325	400	550	800	925	1075
Glass media – coarse (kg)	150	250	300	400	475	600

Dimension Drawing



Selection Guide

$Q = A \times v$

Q: filter flow rate (m³/h) · A: filtration surface area (m²) · v: filtration rate (20–50 m³/h/m²)

$V_{pool} = Q \times t$

t: turnover time (h). Example: Ø 1600 mm → 2.01 m² × 30 ≈ 60 m³/h; with a 4-hour turnover ≈ 240 m³ of pool volume.

For public pools the filtration rate and turnover time are set per project according to bather load and applicable regulations; a lower rate gives better water quality.

Application Areas

- Municipal and public swimming pools
- Hotel, resort and sports facility pools
- Olympic and semi-Olympic pools
- Ozone, seawater and drinking water applications (with optional equipment)

Technical values are based on the manufacturer's (AstralPool) 2026 catalog data; the manufacturer reserves the right to make technical changes without prior notice. Please request a quote from Artemis Pool Systems for project-specific selection, pricing and lead time.

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